

2SK1184

External dimensions 1 FM20

Absolute Maximum Ratings (Ta = 25°C)

Symbol	Ratings	Unit
V_{DS}	200	V
V_{GS}	± 20	V
I_D	± 5	A
I_D (pulse)	± 20 ($T_{ch} \leq 150^\circ\text{C}$)	A
P_D	30 ($T_c = 25^\circ\text{C}$)	W
E_{AS}^*	67	mJ
T_{ch}	150	$^\circ\text{C}$
T_{stg}	-55 to +150	$^\circ\text{C}$

*: $V_{DD} = 50\text{V}$, $L = 4\text{mH}$, $I_L = 5.0\text{A}$, unclamped,
See Figure 1 on Page 5.

Electrical Characteristics (Ta = 25°C)

Symbol	Ratings			Unit	Conditions
	min	typ	max		
$V_{(BR) DSS}$	200			V	$I_D = 250\mu\text{A}$, $V_{GS} = 0\text{V}$
I_{GSS}			± 500	nA	$V_{GS} = \pm 20\text{V}$
I_{DSS}			250	μA	$V_{DS} = 200\text{V}$, $V_{GS} = 0\text{V}$
V_{TH}	2.0		4.0	V	$V_{DS} = 10\text{V}$, $I_D = 250\mu\text{A}$
R_e (yfs)	1.3	2.5		S	$V_{DS} = 10\text{V}$, $I_D = 2.5\text{A}$
$R_{DS(on)}$		0.5	0.8	Ω	$V_{GS} = 10\text{V}$, $I_D = 2.5\text{A}$
C_{iss}		260		pF	$V_{DS} = 25\text{V}$, $f = 1.0\text{MHz}$, $V_{GS} = 0\text{V}$
C_{oss}		100		pF	
t_{on}		50		ns	$I_D = 2.5\text{A}$, $V_{DD} = 100\text{V}$, $V_{GS} = 10\text{V}$, See Figure 2 on Page 5.
t_{off}		60		ns	

